Bulletin No. 2

March of the present year showed about the average temperature of April, and in the six weeks which have passed since the issue of our last Bulletin, on March 20, the reputation of the season for phenomenal mildness has been maintained. Notwithstanding a number of disastrous checks the winter and spring of 1921 will be remembered as among the mildest in our annals.

The effect of this unusual warmth in advancing the "Spring Line" was shown in the February records of our early migrants and has been even more evident in certain of the later arrivals, as in the House Wren, Brown Thrush, Catbird, Rose-breasted Grosbeak and Hummingbird, all of which have given the earliest records noted in the past five years; the Catbird this season is nearly a month ahead of its usual time, the Rose-breasted Grosbeak, three weeks, and the Hummingbird more than a fortnight. On the other hand, many other birds, such as the Hermit and Brown Thrushes and the Purple Martin, have held rather closely to their regular dates.

Plants, which are far more responsive to sunlight and warmth, by the end of March had unfolded their leaf and fruit-buds to such an unseasonable degree than the weatherwise began to see disappointment ahead for all who like cherries, peaches and plums. Their fears were unfortunately well-grounded, and on March 28 came the first severe freeze, with the temperature going to 22°, which killed all the sweet cherries, then in bud but nearly ready to flower. A second frost followed on April 10, when the temperature fell to only 29°, but which was even more disastrous than the first since by that time the early fruits had all come to flower; this check was further attended by three inches of snow, and we had the novel and unwelcome sight of plum and pear trees white with bloom rendered all the whiter by a covering which was too much like a shroud. This killed the early peaches, all of the early and most of the late plums, and a part of the sour of Morrell cherries, as well as a part of the pears. A Robin's nest, noticed on the Heights in the crotch of an apple tree, three feet from the ground, was completed on April 9 ; it was buried under snow on the 10th and on the 15th boasted its first egg. On April 17 the temperature hovered about the freezing point for two days, but no further damage was done in the vicinity of Lake Erie;

As was pointed out last year the blooming of the apple usually coincides with the first wave of the Warbler migration, - the average time being May 2 on the sand loam of Cleveland, and May 9 on the Heights. This year the apple trees reached their full blossom-tide on the Heights April 24, or about two weeks ahead of the average date; last year, when the season was exceptionally late, the corresponding time was May 20, when the apple was eleven days behind its usual schedule and nearly a month behind its abnormal record of 1921. The late spring of 1920, when many of the fruit-trees remained in partial bloom for nearly a month, gave Ohio one of the best fruit-seasons it has ever know; 1921 is likely to prove one of the worst. The blooming of the apple was nearly over by April 28 on the Heights, but, as our records will show, very few warblers had been noted up to that date.

22. Cowbird; March 20, Noble Rd., Mrs. Dr. Ruedy; flock of 100, Adelbert College Campus, Mr. Bean.
23. Nighthawk; March 20, Noble Rd., Mrs. Dr. Ruedy; May 18, Hessler Road, Professor Hulme.

24. Phoebe; March 20, Noble Rd., Mrs. Dr. Ruedy; March 25, Lake View, Professor Hulme.
25. Field Sparrow; March 24, Noble Rd., singing; March 25, Lake View, Professor Hulme.
26. Brown Creeper; March 25, Doan Brook, several, Professor Hulme.
27. Mourning Dove; March 25, Lake View, Professor Hulme.
28. Wood Pewee; March 26, Mentor, Miss Ruth Bradway; Mar. 12, Noble Rd., Mrs. Ruedy; May 18, Wade Park; Prof. Hulme.
29. Chipping Sparrow; March 26, Chesterland Caves, Donald Hulme. March 20, Shaker Heights, Dr. Kindred.
30. Golden Crowned Kinglet; April 2, Shaker Lakes, Professor Hulme; April 3, Noble Rd., Mrs. Dr. Ruedy.
31. Vesper Sparrow; March 30, Noble Rd., Mrs. Dr. Ruedy; April 3, Professor Finfrock.
32. Cedarbird; April 1, Noble Rd., 50-60, Mrs. Dr. Ruedy; April 2, Shaker Lakes, Professor Hulme; Wade Park, 75-100, taking insects over Pond, Students in Bird Study Course.
33. Kingfisher; April 2, Shaker Lakes, Professor Hulme; April 7, Euclid Gorge, Students in Bird-Study Course.
34. Buffle-head Duck; April 2, Shaker Lakes, Professor Hulme.
35. Fox-sparrow; March 20, Noble Rd., Mrs. Dr. Ruedy.
36. White-bellied Nuthatch; April 3, Noble Rd., Mrs. Dr. Ruedy.
37. Hermit Thrush; April 3, Nine Mile Creek, Professor Hulme; April 5, Wade Park.
38. Hairy Woodpecker; April 7, Euclid Gorge, Students of Bird-Study Course.
39. Tufted Tit; April 7, Euclid Gorge, heard, Students of Bird-Study Course.
40. Blue Jay; April 10, Wade Park, Students of Bird-Study Course.
41. Myrtle Warbler; April 13, Shaker Heights, Gerald Thayer; April 17, Wade Park, several, Donald Hulme; May 2, Adelbert College Campus, Prof. Finfrock.
42. Ruby-crowned Kinglet; April 13, Shaker Heights, Gerald Thayer.
43. Sapsucker; April 18, Rockefeller Park, Professor Hulme; April 7, Euclid Gorge, Students of Bird-Study Course.
44. Catbird; April 14, Cleveland, reported in Plain Dealer by Carl T. Robertson; April 28, Gates Mill, Students of Bird-Study Course. May 8, Noble Rd.
45. Purple Martin; April 14, several, Donald Hulme; April 16, Noble Rd., one.
46. Rose-breasted Grosbeak; April 14, reported in Plain Dealer by Carl T. Robertson; May 9, Magnolia Drive, Wade Park H.T.Bailey.
47. Brown Thrush; April 14, Cleveland, reported in Plain Dealer by Carl T. Robertson; April 20, Oak Rd., Cleveland Heights, one, and April 25, eight, Professor Finfrock.
48. White-throated Sparrow; April 16, Wade Park, Donald Hulme; April 19, the same, Mr. Henry Turner Bailey.
49. White-crowned Sparrow; April 16, Noble Rd., two, April 19, Wade Park, Students of Bird-Study Course.
50. Great Horned Owl; April 19, Mentor, Mr. Franklin Jones.
51. Red-tailed Hawk; April 19, Wade Park (possibly mistaken for Red-shouldered Hawk), Students of Bird-Study Course.
52. White-bellied Martin; April 19, Wade Park, Students of Bird-Study Course.
53. Wood Thrush; April 23, Oak Rd., Cleveland Heights, Professor Finfrock.
54. Loon; April 23, flying over Adelbert College Athletic Field, Dr. Furnas; May 8, Shaker Lakes, Professor Hulme.

55. House Wren;April 23, Noble Rd., Mrs. Dr. Ruedy; April 24, Berkshire Rd., Cleveland Heights, Miss Calfee; April 28, Gates Mill, Students of Bird-Study Course.
56. American Goldfinch; April 7, Euclid Gorge, Students of Bird-Study Course. April 24, Shaker Heights, several, Professor Hulme.
57. Ruby-throated Hummingbird; April 24, near Lake-shore, corner of Lake And Cove Avenues, Mr. Hershey; May 17, Noble Rd., Mrs. Ruedy.
58. Red-headed Woodpecker; April 25, Oak Rd., Professor Finfrock; do. Wade Park, Professor Hulme.
59. Downy Woodpecker; April 28, Gates Mill, Students of Bird-Study Course.
60. Yellow Warbler; April 26, Oak Rd., Professor Finfrock; April 28, Gates Mill, several singing, Students of Bird-Study Course; April 26, Noble Rd., Mrs. Dr. Ruedy. April 26, Adelbert College Campus, Professor Hulme.
61. Red-cockaded [sic; possibly Red-bellied] Woodpecker; April 28, Gates Mill, one, Students of Bird Study Course.
62. Pine Warbler; April 28, Gates Mill, one female, Students of Bird Study Course; May 22, Lake View, Professor Hulme.
63. Grasshopper Sparrow; April 28, Gates Mill, Students of Bird-Study Course.
64. Bob White; April 24, Noble Rd., Mrs. Dr. Ruedy.
65. Veery; April 26, Noble Rd., Mrs. Dr. Ruedy; May 15, Lakeview, Professor Hulme.
66. Scarlet Tanager; May 2, Noble Rd., Mrs. Dr. Ruedy; May 17, Lake View, Professor Hulme.
67. Baltimore Oriole; April 30, Mentor, Miss Ruth Bradway; May 6, Wickliffe, Mr. Shipman; May 9, Noble Rd., MRs. Ruedy; do. Cornell Rd., Donald Hulme.
68. Kingbird; May 1, Mentor, Miss Ruth Bradway; May 10, Wade Park, Professor Hulme.